

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-017727**Date Inspected:** 30-Oct-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Mr.Qiu Wen.**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower and Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Shailesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

NDT

BAY 10

This QA Inspector performed randomly Visual Inspection and Magnetic Particle Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated a TL- 6028 (MT) report for this date. The member is identified as Tower Lift 4 Facade. The weld designations reviewed are as follows.

ND1-SFSA4-62-1, 4, 7, 9, 10

ND1-SFSA4-68-1, 4, 7, 9, 10

NDT Notification No-07167

This QA Inspector observed the following work in progress:

BAY 10

SAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 040460 Perform Submerged Arc

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Welding (SAW) on Tower lift 5 cover plate. Joint identified as NSD1-TL5-3B/F-58A, 47A. ZPMC QC Identified as Li Peng Fei. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-3221-B-U3c-S-1.

OBG Bike path plate FCAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 053869, Perform Flux Core Arc Welding (FCAW) on OBG bike path plate. Joint identified as BK004A5-026-004, 007, BK004A3-026-009. ZPMC QC Identified as Yu Zhi Lai. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2233-Tc-U4c-F.

This QA Inspector observed ZPMC qualified welding personnel identified as 057258, Perform Flux Core Arc Welding (FCAW) on OBG bike path plate. Joint identified as BK004A4-026-021, 022. ZPMC QC Identified as Yu Zhi Lai. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2133.

This QA Inspector observed ZPMC qualified welding personnel identified as 040533, Perform Flux Core Arc Welding (FCAW) on OBG U Ribs splice plate. Joint identified as GGL-MQ-1958-17, 19- 1, 2. ZPMC QC Identified as Sun Tiang Liang. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2231-Tc-U4b-F.

BAY 11

OBG FCAW process:

This QA Inspector observed ZPMC qualified welding personnel identified as 053316, 040759, Perform Flux Core Arc Welding (FCAW) on OBG bike path. Joint identified as BK005A1-003-043. ZPMC CWI Identified as Yu Dong Ping. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2232-B-Tc-U4c-F. For more information see below attached picture number 1.

This QA Inspector observed ZPMC qualified welding personnel identified as 040723, 056640, 042218, Perform Flux Core Arc Welding (FCAW) on OBG U Ribs splice plate. Joint identified as GGL-MQ-1958-51~60- 1, 2. ZPMC QC Identified as Libin. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2231-Tc-U4b-F. For more information see below attached picture number 2.

This QA Inspector observed ZPMC qualified welding personnel identified as 205649, Perform Flux Core Arc Welding (FCAW) on OBG Bike path cover plate. Joint identified as BK004A2-053-014, 015, 017, 019, 020. ZPMC QC Identified as Xu Jie. The welding parameters as measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-T-2132-2- plug.

OBG SMAW process:

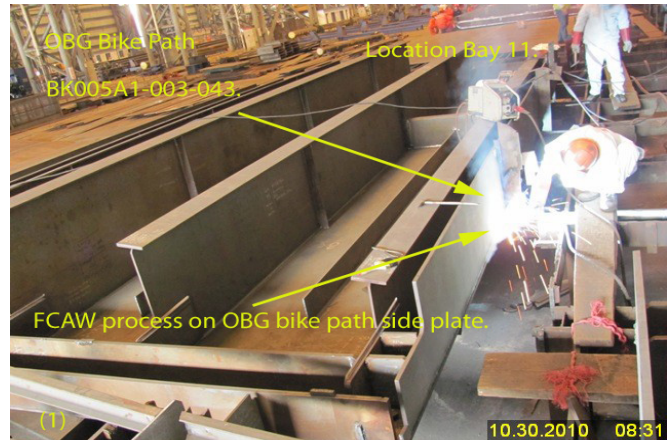
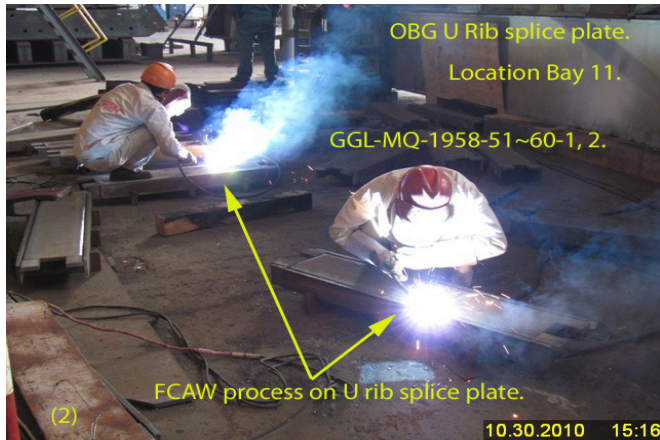
This QA Inspector observed ZPMC qualified welding personnel identified as 040655, Perform Shielded Arc Welding (SMAW) on OBG Bike path. Joint identified as BK005A7-023-129, 144, 183, 198. ZPMC CWI Identified as Yu Dong Ping. The welding parameters as measured using QC's calibrated instrument appeared to be

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in general compliance with WPS-B-T-2113.

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.



Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Thomas Ho phone : 150002048250, who represents the Office of Structural Materials for your project.

Inspected By: Gaikwad,Shailesh

Quality Assurance Inspector

Reviewed By: Clifford,William

QA Reviewer